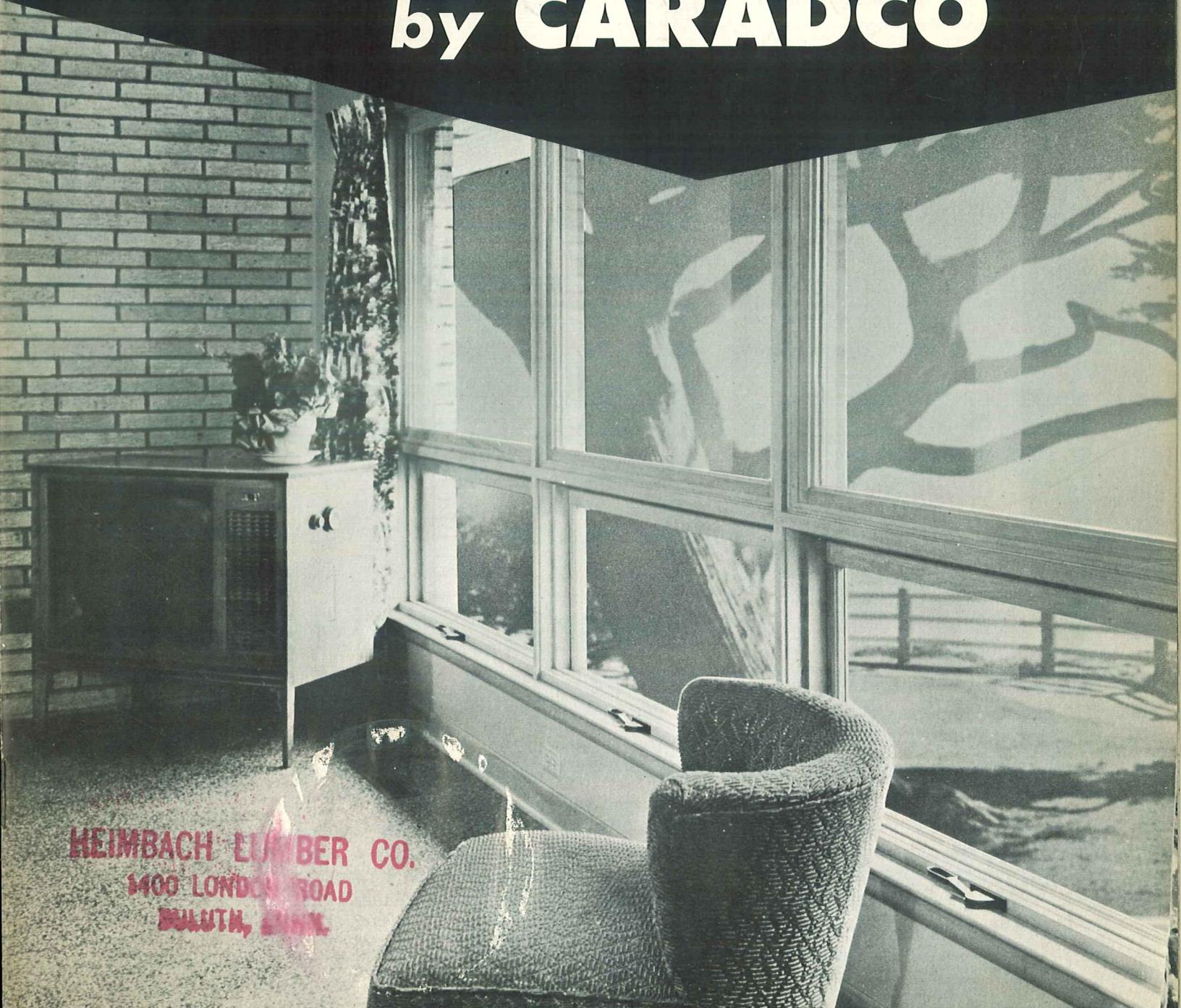


BILT-WELL

AWNING UNITS

by CARADCO



HEIMBACH LUMBER CO.
1400 LONDON ROAD
DULUTH, MINN.

SWING-OUT AWNING AND CASEMENT UNITS
SWING-IN HOPPER UNITS
FIXED AND PICTURE UNITS

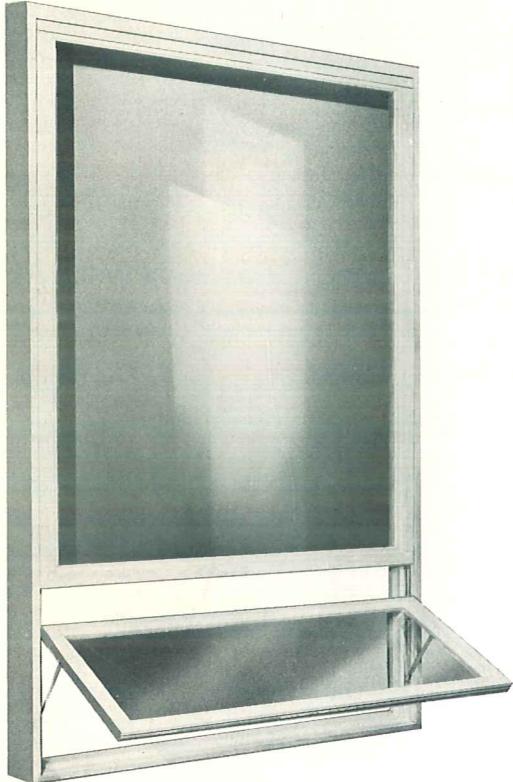


BILT-WELL

AWNING and AWNING VUE WINDOWS

are manufactured under one or
more of the following Patents
and Patents Pending:

No. 2,918,710 • 2,759,746 • 2,716,784



THE NEW BILT-WELL Awning Vue

A fine quality window for homes in all price ranges . . . an exceptionally good value "dollar wise" . . . offers excellent visibility, natural light, and ventilation . . . completely weather-stripped for maximum protection no matter what the weather may be like . . . unlimited in adaptability for all standard types of wall construction.

The New BILT-WELL Awning Vue consists of a picture sash over an awning window. The Picture Sash is stationary and the Awning Sash is operative. The Awning Sash can be operated with any of the operators illustrated on page 6.

Manufactured of clear kiln-dried Ponderosa Pine, vacuum pressure preservative treated in accordance with the National Woodwork Manufacturers Association, U. S. Dept. of Commerce, Commercial Standards CS-204-59.

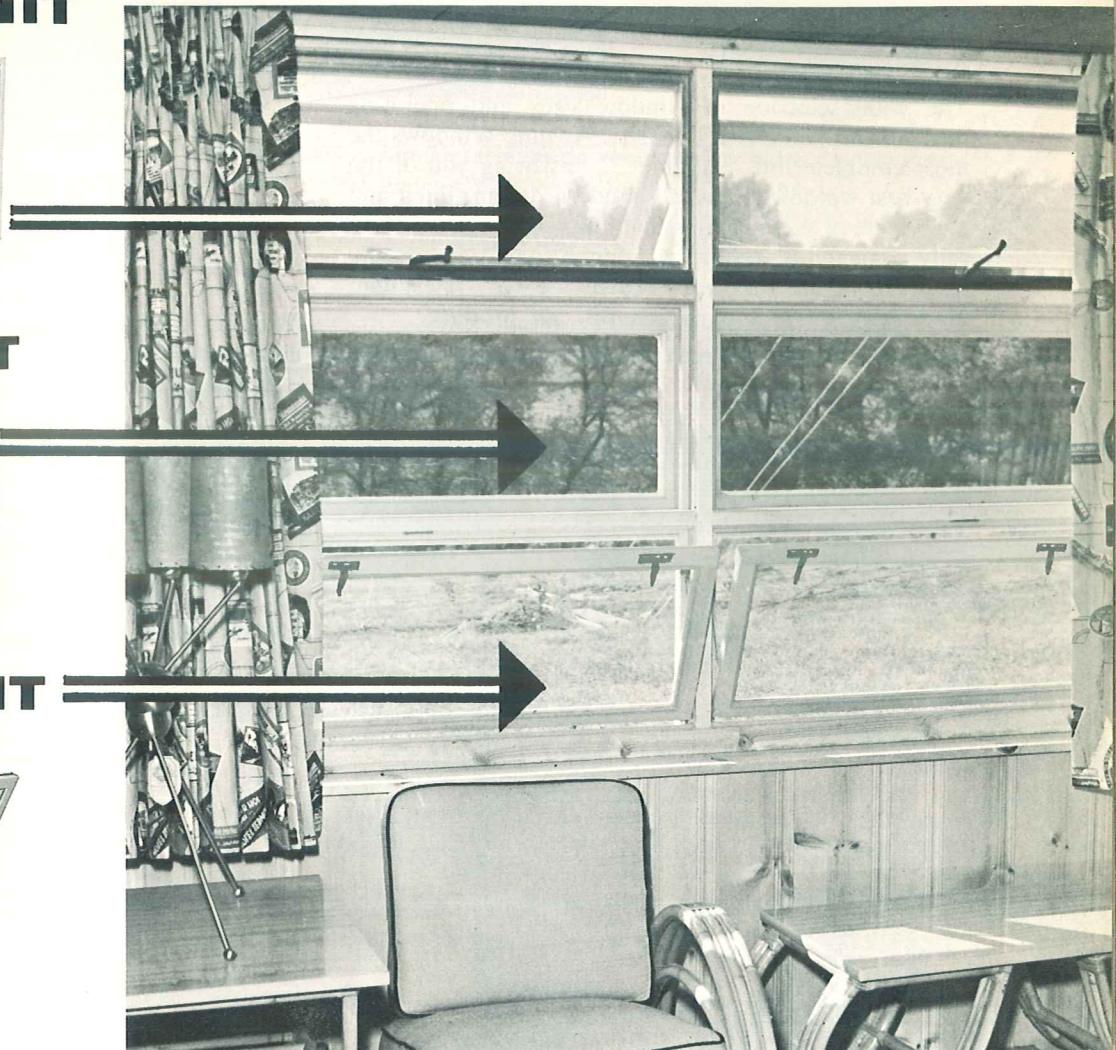
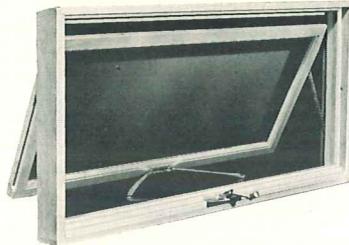
QUALITY FABRICATOR  APPROVED NO. 501
American WOOD WINDOW Institute
CONFORMS—UNITED STATES COM'L STND. 204-59

LIC. NO. 130 WATER REPELLENT PRESERVATIVE
APPROVED NAT'L WOODWORK MFR'S ASSN.

BILT-WELL

AWNING WINDOWS

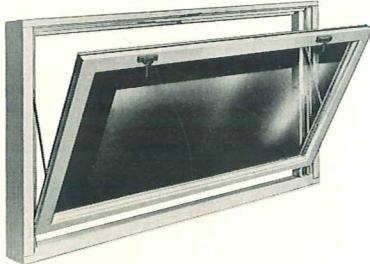
AWNING UNIT



FIXED UNIT



HOPPER UNIT

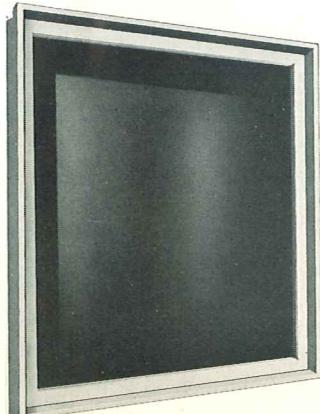


**BILT-WELL AWNING UNITS
CAN BE COMBINED
IN NUMEROUS WAYS**

. . . installed to flank picture sash . . . used as hopper vent under fixed or picture sash or placed on end as casements . . . There are many arrangements possible . . . excellent adaptability to any standard type wall—solid masonry, brick veneer and frame construction.

BILT-WELL Picture Unit, illustrated at the right is available in six standard sizes corresponding to the height of two awning units stacked one over the other, and in identical widths of awning units.

PICTURE UNIT



Popular Installation—Picture Unit over Hopper

BILT-WELL *features are Outstanding*

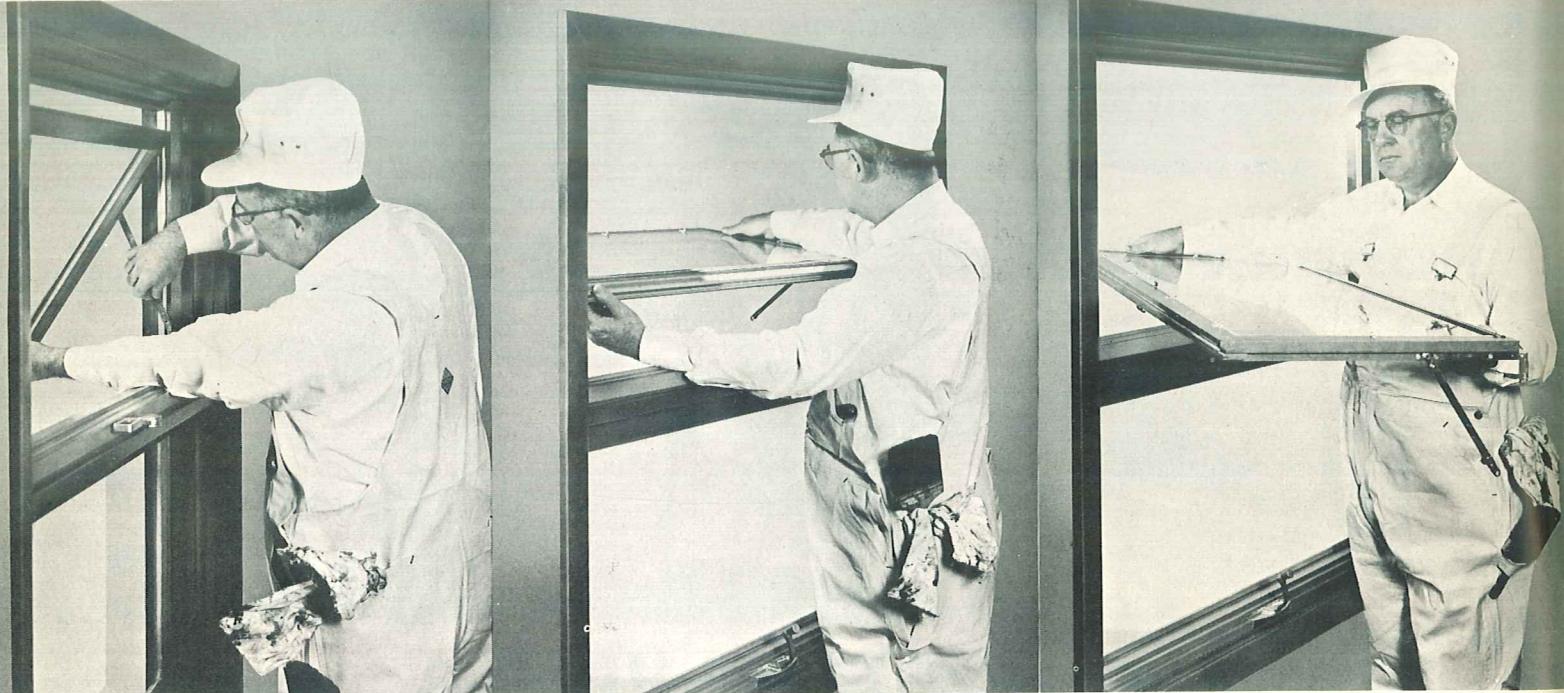
Nowhere else will you find the convenience and beauty that are inherent in famous BILT-WELL Awning Windows.

The wide selection of window sizes and operating mechanisms make BILT-WELL Awning Windows the most complete line available . . . assuring you of the very best windows to fit any modern design. Each and every part of these economical units has been thoughtfully designed, carefully developed, and scientifically tested to assure that you receive the very finest that modern methods and procedures can produce.

For added benefit, all BILT-WELL Awning Windows

are vacuum-pressure treated with a water-repellent preservative in accordance with National Woodwork Manufacturers Association Standards, U. S. Dept. of Commerce, Commercial Standards CS 204-59, and has the AWI Seal of Approval.

Tested for Weathertightness. Infiltration tests by an accepted testing laboratory are, almost twice as weathertight as required by FHA Minimum Property Standards and Commercial Standards CS 204-59. Based on an overall sash crack perimeter of 11.89 feet, the air infiltration was determined to be 0.31 cubic feet per minute, per linear foot of sash crack perimeter.



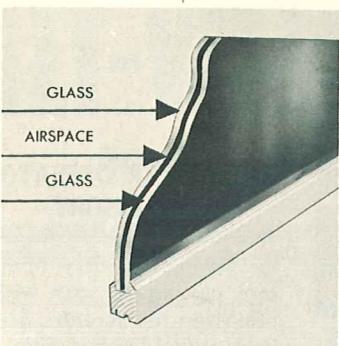
1 Release the detach device on the hinge assembly.

2 Lower sash until released from the channel.

3 Remove sash from the frame.

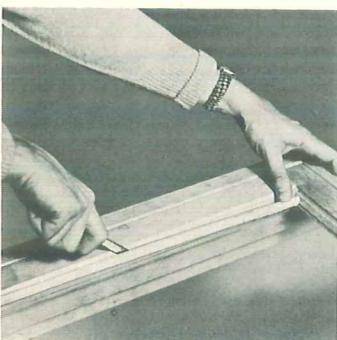
BILT-WELL Removable Hinges allow easy removal of the sash for painting . . . for reducing weight of assembled groupings in handling and installing. This removal of sash is done simply and easily without tools and is accomplished by sliding a detached shoe up the hardware linkage to slip out the sash and engaging hardware from the channel. In addition to this removable feature, the hinges are sturdy as a result of a swivel plate being incorporated right in the channel. In this way the weight of the sash is borne by four

screws in the swivel plate. Other fine features are incorporated in the hinge. The hinges are fully concealed when the sash is closed and they are therefore, prowler proof. All moving joints of the hinges have brass or nylon bearings to insure long, trouble-free operation; all such parts are lubricated at the factory. The metal used in the hinges has a rust resisting finish which insures against rust and corrosion. The hinge channels are self-cleaning to prevent binding.



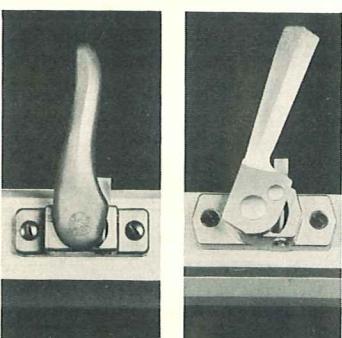
INSULATING GLASS

All BILT-WELL Awning Window Units may be specified "Glazed" (I.G.) insulating glass. Unless otherwise specified, units will be furnished clamp glazed, (SS) single strength glass, except top portion of BILT-WELL Awning Vue Units No. 3965, which is furnished with double strength (DS) glass.



REGLAZING IS SIMPLE

In sash with SS glass, a special groove has been machined into one side of the wood surrounding the glass. In the event of glass breakage, cutting along this groove with a knife will remove the wood moulding which can be replaced after glass has been replaced.

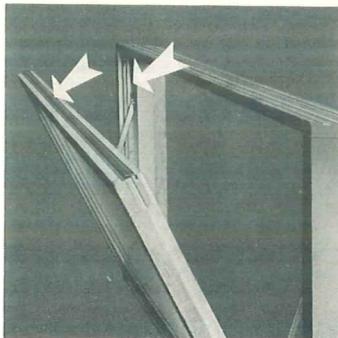


LOCKING HANDLE ACCESSORY

A choice of a metallic pigmented nylon or a Gold-Tone finish metal Locking Handle is offered. Both kinds of material have been thoroughly tested for the purpose. Either Locking Handle is used for all installations—Awning, Hopper, and/or Casement.



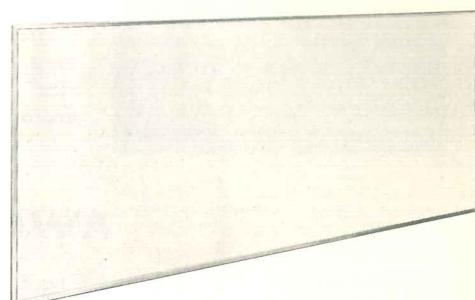
The task of cleaning the inside and outside glass of BILT-WELL Awning Windows is simple. They open to the position preferred to avoid reaching. BILT-WELL Awning Windows provide ideal inside ventilation control to capture prevailing breezes without creating a draft.



WEATHERSTRIPPING AND HINGING

Anodized aluminum weatherstrip is rolled in (factory installed) top and bottom edges of sash, and rolled in the sides of the frame to insure a weathertight seal.

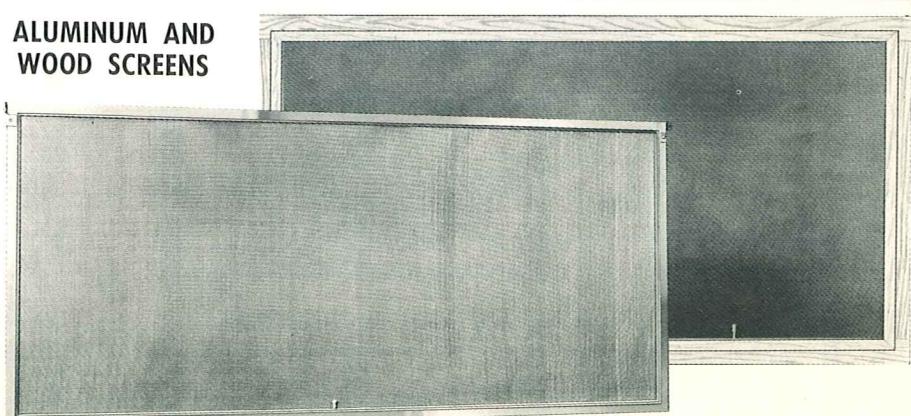
Positive, trouble-free action, one piece hinge with special sash detach device permits easy, quick sash "take out" for painting, etc.



AWNING STORM PANEL

For units glazed with SS or DS glass, a glass with an aluminum frame bonded to the glass forms the Awning Storm Panel, furnished with fasteners for easy installation.

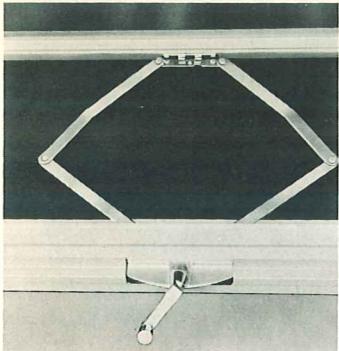
ALUMINUM AND WOOD SCREENS



A CHOICE OF WOOD OR METAL SCREENS

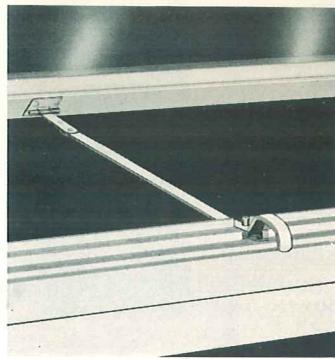
Wood Screens: Ponderosa Pine, water-repellent preservative treated. Metal Screens: Gold-Tone Aluminum frame. Wood and Metal Screens: Alclad Aluminum wire cloth, gun-metal finish, 18/14 wire mesh, including locking bolts.

AWNING WINDOW OPERATORS



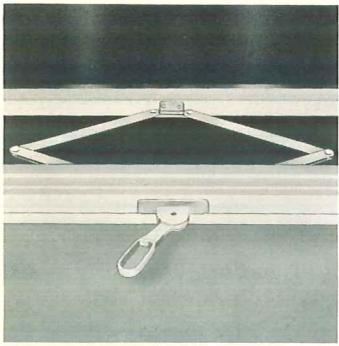
GEAR OPERATOR ACCESSORY

Contemporary, attractive, durable operator with Gold-tone finish. Designed with crank handle at a convenient angle for smooth, easy operation. A "detach device" releases sash from operator for easy washing.



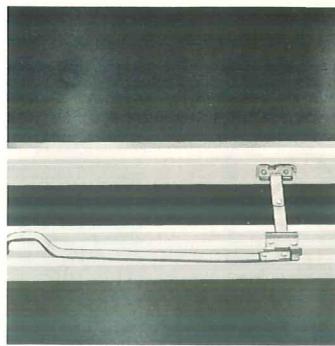
RIGID BAR OPERATOR ACCESSORY

This simple, practical operator facilitates easy opening and closing of sash without removing the screen. Screen is removable and the Bar Operator can be detached from the frame by lifting upward.



LEVER OPERATOR ACCESSORY

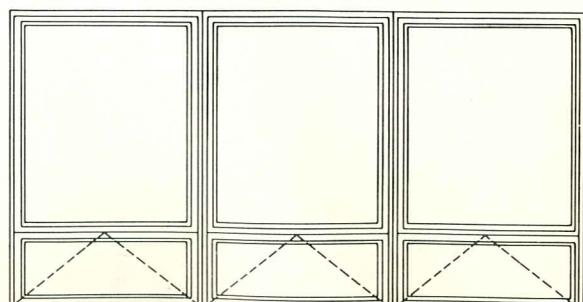
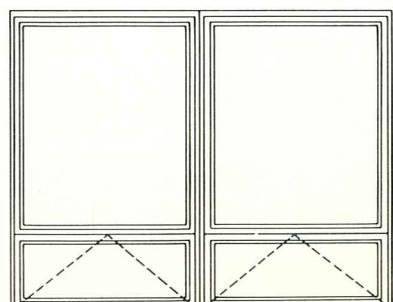
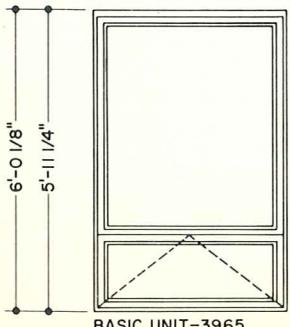
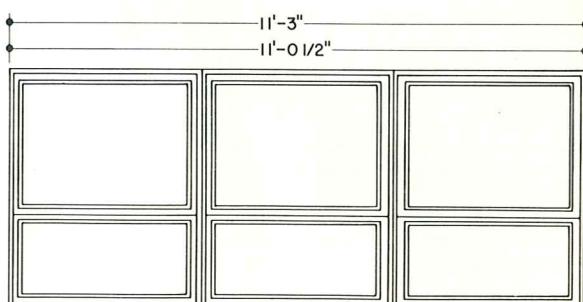
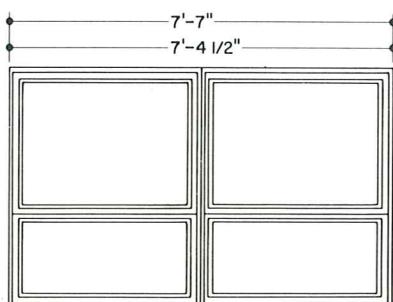
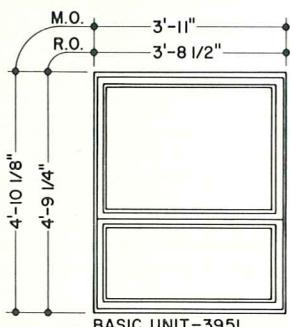
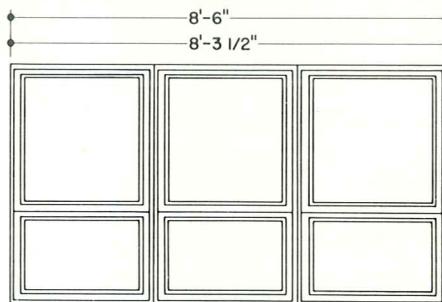
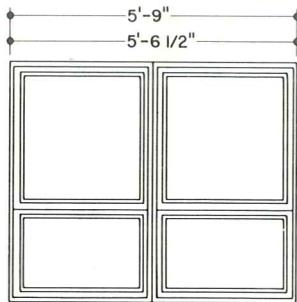
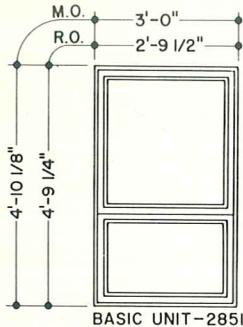
An easy-to-operate scissors type linkage, operated by a lever handle with Gold-tone finish. The arm travels 180 degrees from fully closed to fully open. A "detach device" releases sash from operator for easy washing.



JOINTED BAR OPERATOR ACCESSORY

Sectional jointed bar folds back out-of-the-way against the frame when sash is partially open. Sash can be fully opened to entire length of bar and detached for washing glass or painting sash.

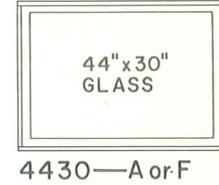
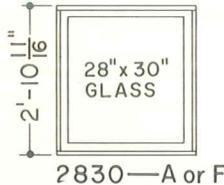
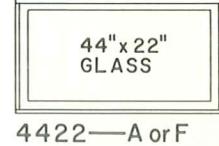
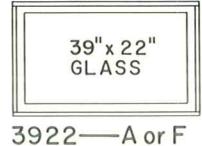
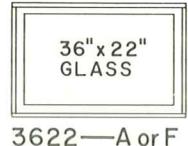
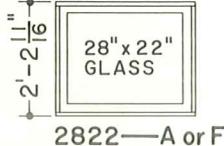
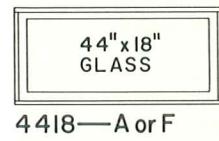
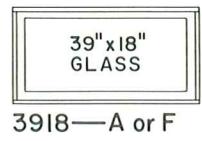
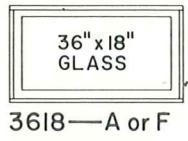
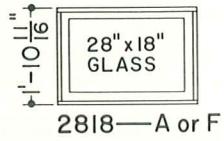
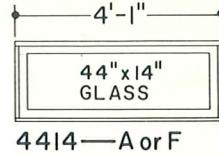
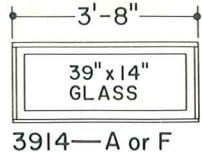
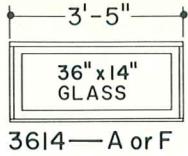
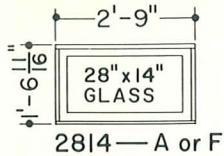
AWNING-VUE COMBINATIONS



BILT-WELL AWNING WINDOW

BASIC UNITS

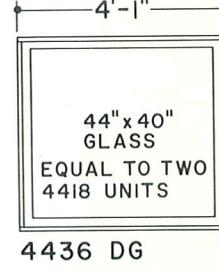
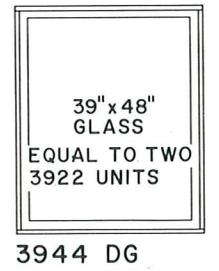
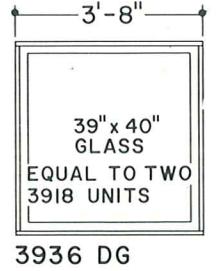
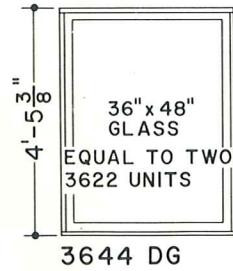
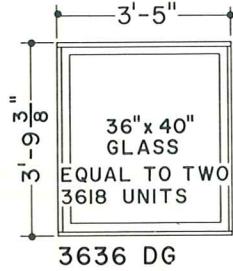
"A" unit is basic awning window unit with weatherstrip and hinges only stalled. Accessory hardware available for "A" unit is jointed bar operator, rigid bar operator, gear operator, lever operator, nylon locking handle, or Gold-tone Metal Locking Handle. "F" units are fixed or non-operative weatherstripped units. When ordering screens and operators for "A" Units, specify Wood or Gold-tone Aluminum Screens and type of operator, if desired.



STOCK UNITS

BILT-WELL AWNING WINDOW PICTURE UNITS

BILT-WELL Awning Window Picture Unit sizes are shown in this section. Overall measurements of units do not, however, include sub-sill. Awning Window Picture Units are supplied completely assembled, and glazed with (IG) insulating glass, or (D.S.) double strength glass.



FIXED PICTURE UNITS are furnished glazed with 1/2" double insulating glass. Also available single glazed with storm sash

FIXED PICTURE UNITS

(WITHOUT SUB-SILL)

NOTE

Dimensions shown are over-all unit sizes and DO NOT include outside casings or sub-sill.



UNITS ARE CARTON PACKED

BILT-WELL Awning Windows, available in a wide range of popular stock sizes, are precision machined by master craftsmen from clear, kiln-dried Ponderosa Pine and water-repellent preservative treated after machining units are furnished completely assembled, carton packaged for easy handling.

COMBINATIONS

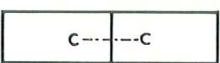
GLASS WIDTH	1 UNIT WIDE	2 UNITS WIDE	3 UNITS WIDE
	MASONRY O.P.G. 3'-0"	M. O. 5'-9"	M. O. 8'-6"
28"	ROUGH " 2'-9½"	R. O. 1'-9½"	R. O. 8'-3½"
	MASONRY " 3'-8"	M. O. 7'-1"	M. O. 10'-6"
36"	ROUGH " 3'-5½"	R. O. 6'-10½"	R. O. 10'-3½"
	MASONRY O.P.G. 3'-11" !	M. O. 7'-7"	M. O. 11'-3"
39"	ROUGH " 3'-8½"	R. O. 7'-4½"	R. O. 11'-0½"
	MASONRY " 4'-4"	M. O. 8'-5"	M. O. 12'-6"
44"	ROUGH " 4'-1½"	R. O. 8'-2½"	R. O. 12'-3½"

GLASS HEIGHT	1 UNIT HIGH	2 UNITS HIGH	3 UNITS HIGH
14"		M. O. 3'-4½" R. O. 3'-3½"	M. O. 1'-9½" R. O. 1'-8½"
		M. O. 4'-0%" R. O. 3'-11½"	M. O. 2'-1½" R. O. 2'-0¾"
18"		M. O. 4'-8½" R. O. 4'-7½"	M. O. 2'-5½" R. O. 2'-4¾"
		M. O. 6'-11½" R. O. 6'-10¼"	M. O. 4'-11½" R. O. 4'-10¼"
22"			MASONRY OPENING 4'-11½" R. O. 4'-10¼"
			MASONRY ROUGH " 5'-11½" R. O. 5'-10¼"
			MASONRY ROUGH " 6'-11½" R. O. 6'-10¼"
			MASONRY ROUGH " 7'-11½" R. O. 7'-10¼"

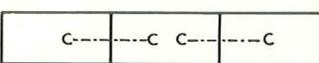
HEIGHT MEASUREMENT INCLUDES SUB SILL



1 UNIT HIGH



2 UNITS HIGH



3 UNITS HIGH

RIBBON—MAY BE AWNING, FIXED OR HOPPER

DOUBLE STACKED—MAY BE AWNING, FIXED OR HOPPER

TRIPLE STACKED MAY BE AWNING, FIXED, HOPPER OR MIXED

*FIXED PICTURE UNIT WITH HOPPER BELOW—MAY BE COMBINED WITH TRIPLE STACKED.

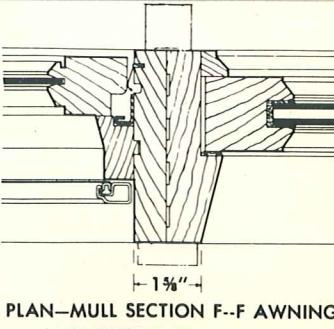
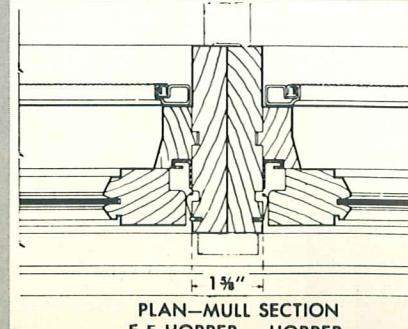
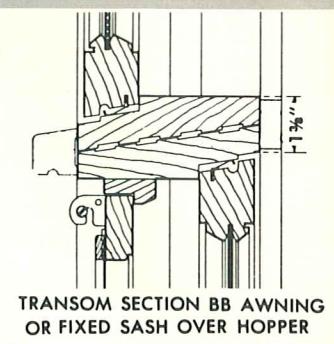
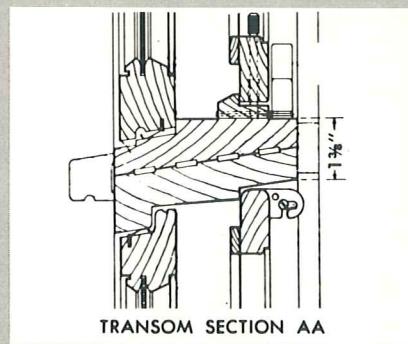
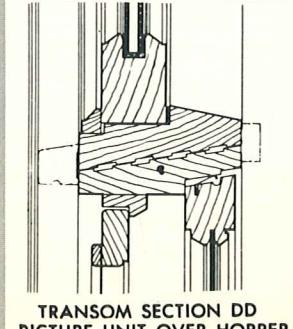
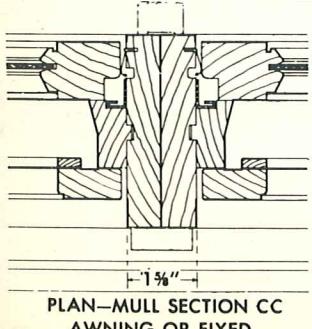
FOR EACH ADDITIONAL UNIT IN HEIGHT, ADD FOR 14" GLASS 1-6½", 18" GLASS 1-10¼", 22" GLASS 2-2¾"
 " " " " " " 28" " 2'-9", 36" " 3'-5", 39" " 3'-8" 44" GLASS 4'-1"

TO DETERMINE TRIM OPENINGS—SUBTRACT 3¼" FROM R.O. HEIGHT —2¼" FROM R.O. WIDTH

*NOTE: FIXED PICTURE UNITS ARE MADE IN 3 WIDTHS (36, 39 AND 44" GLASS) AND 2 HEIGHTS EQUAL TO TWO UNITS 18" OR 22" STACKED

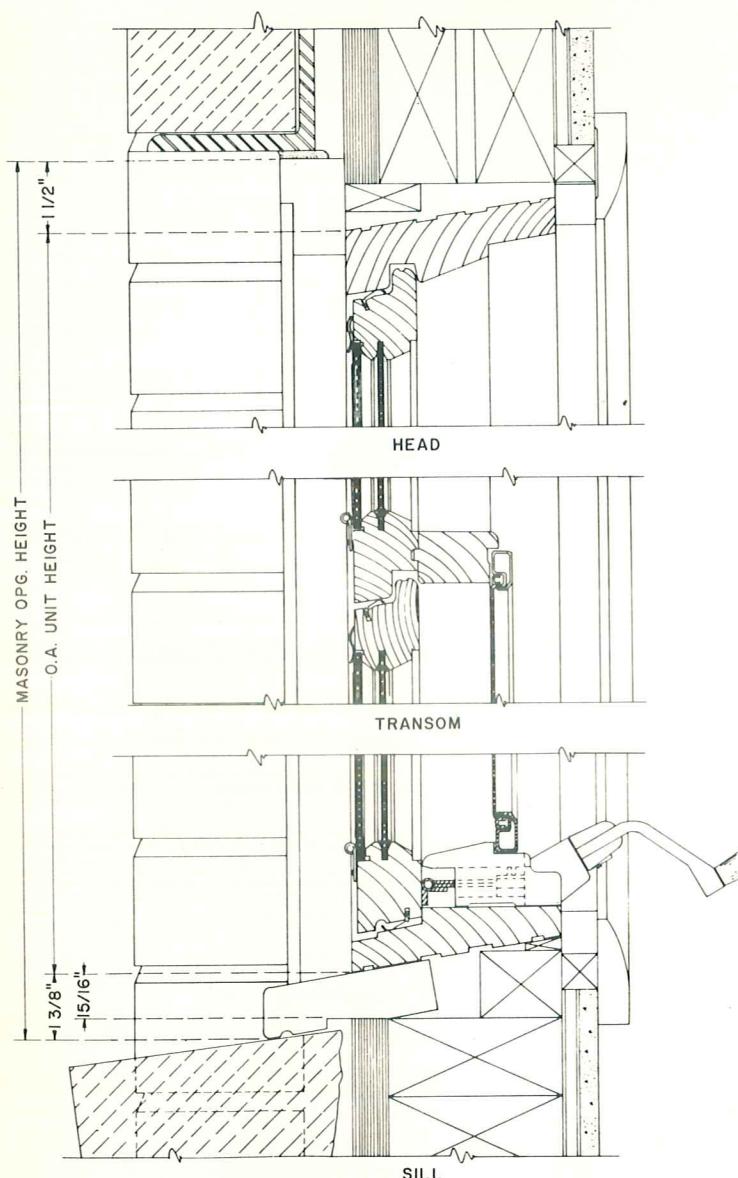
SECTIONAL DETAILS

for joining two or more units

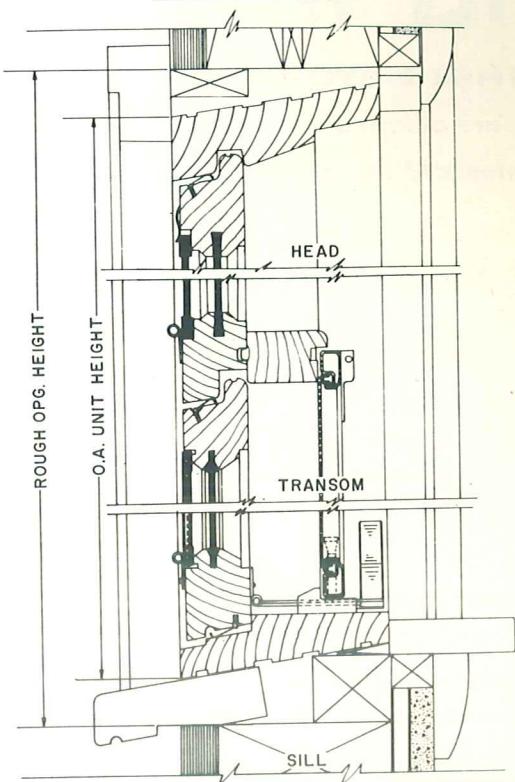


SECTIONAL DETAILS OF AWNING-VUE WINDOWS

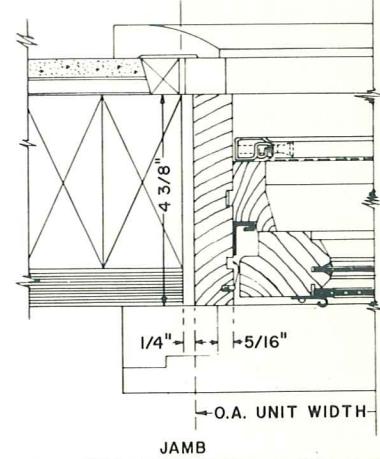
BRICK VENEER WALL



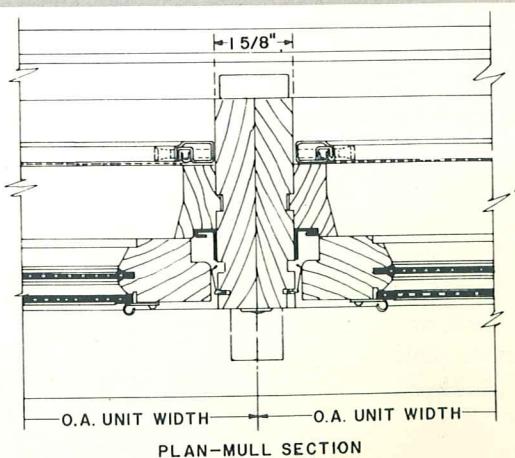
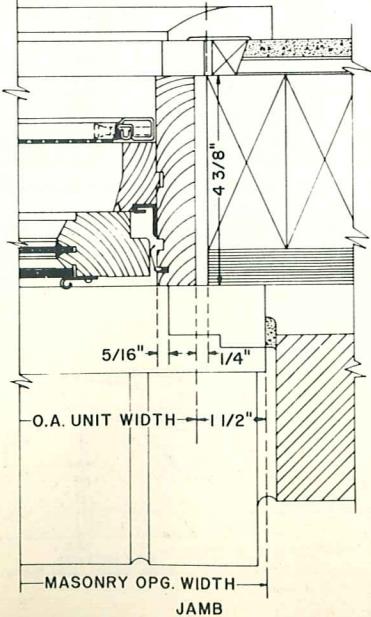
FRAME WALL



ROUGH OPG. WIDTH



ROUGH OPG. WIDTH

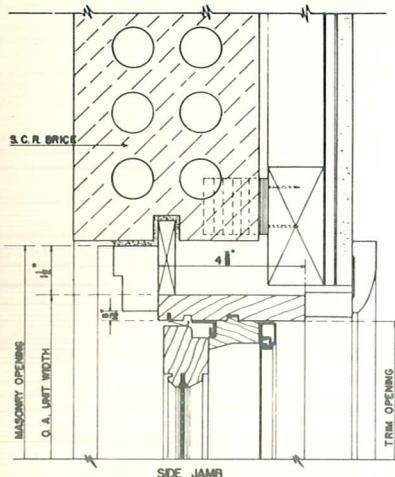


PLAN-MULL SECTION

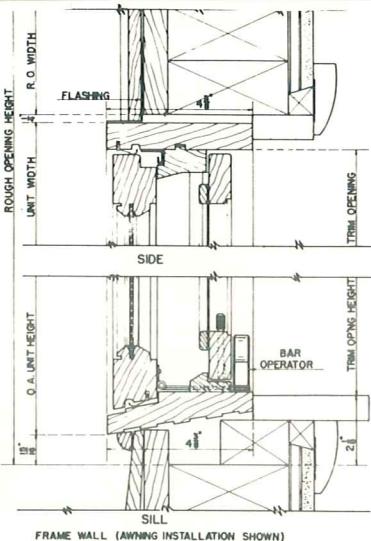
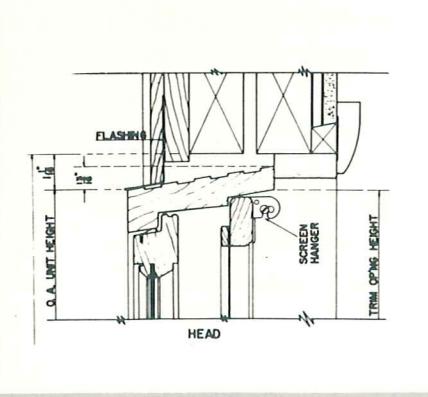
BILT-WELL

AWNING WINDOWS

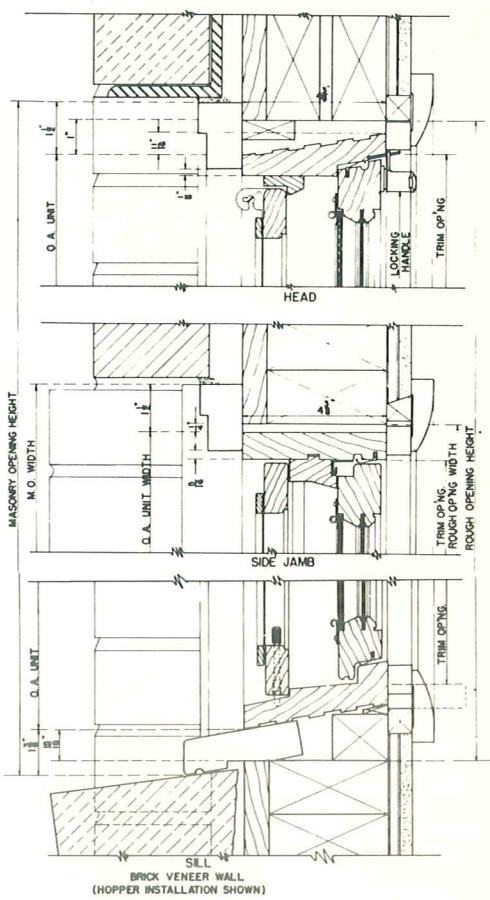
are adaptable to all
standard types of wall
construction



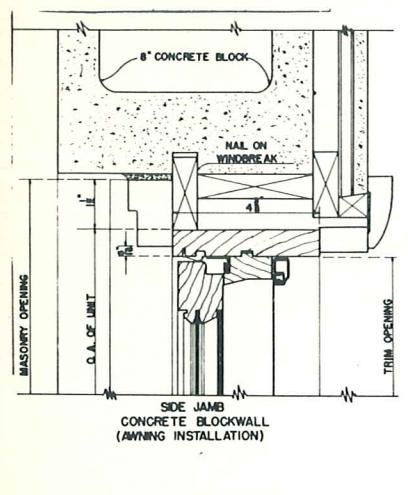
S.C.R. BRICK WALL - (AWNING WINDOW INSTALLATION)



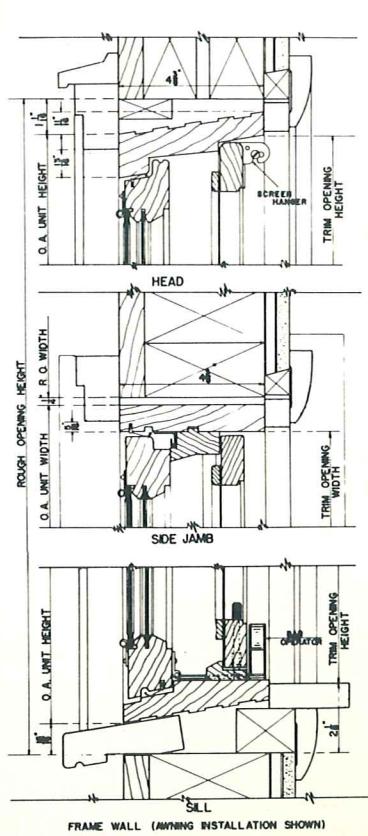
FRAME WALL (AWNING INSTALLATION SHOWN)



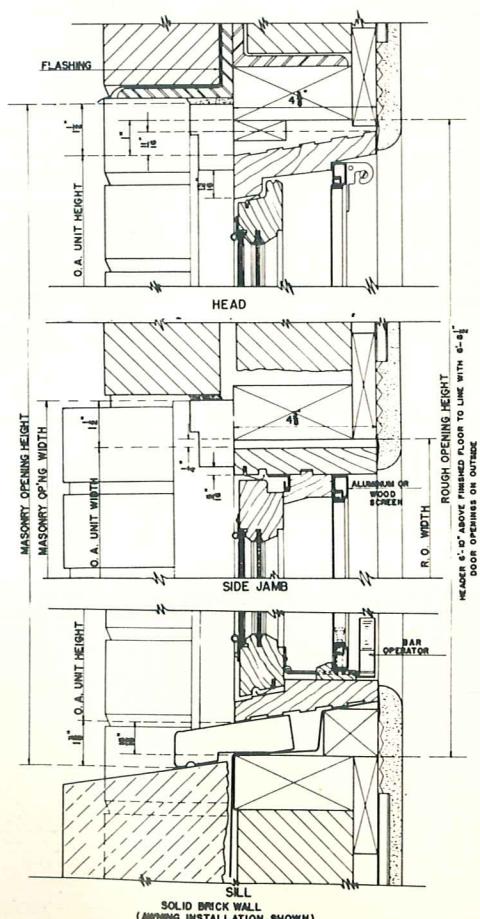
BRICK VENEER WALL
(HOPPER INSTALLATION SHOWN)



SIDE JAMB
CONCRETE BLOCKWALL
(AWNING INSTALLATION)



FRAME WALL (AWNING INSTALLATION SHOWN)



SOLID BRICK WALL
(AWNING INSTALLATION SHOWN)

Casing, Sub-sill, Ex-Jamb, etc., for BILT-WELL Awning Windows are shown on page 12. These are accessories and therefore unless ordered are not furnished.

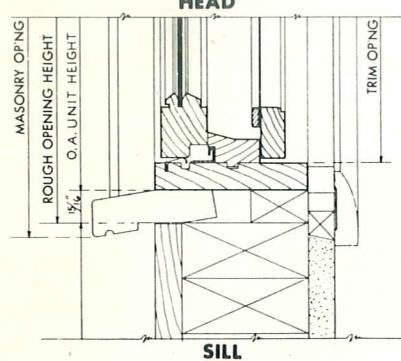
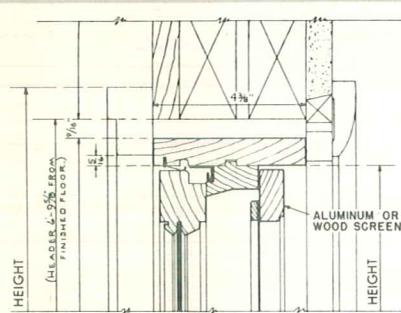
BILT-WELL

AWNING WINDOWS AS CASEMENTS

The "A" unit placed on end may be used as a casement window, opening out. Either the gear operator or lever operator accessory is preferred for casement use as sash can be operated without removing the screen.

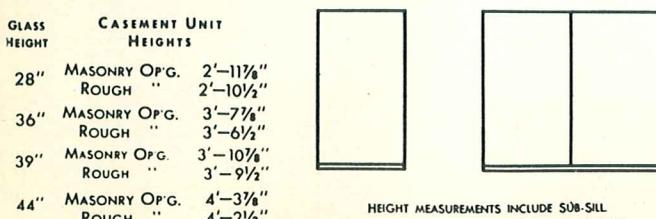
NOTE: The 3630, 3930, and 4430 should NOT be used as casements.

It is recommended that bar operated, gear operated, and lever operated casement units in multiple combinations be assembled to swing all left or all right to maintain uniform narrow mulls. Locking Handle casement units must all hinge from left hand side as viewed from outside to place locking handle in proper operating position.



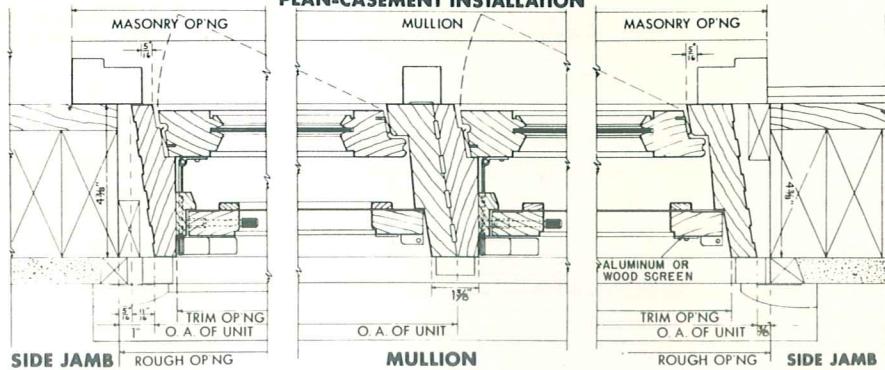
REQUIRED WALL OPENINGS FOR INSTALLATION CASEMENT UNITS

GLASS WIDTH	1 UNIT WIDE		2 UNITS WIDE		EACH ADDITIONAL UNIT WIDE—ADD	
	MASONRY OPNG	ROUGH	M. O.	R. O.	M. O.	R. O.
14"	1'-9 3/8"	1'-8 1/6"	3'-4 1/6"	3'-2 1/6"	1'-6 3/4"	"
18"	2'-1 3/8"	2'-0 1/6"	4'-0 1/6"	3'-10 1/6"	1'-10 3/4"	"
22"	2'-5 3/8"	2'-4 1/6"	4'-8 1/6"	4'-6 1/6"	2'-2 3/4"	"

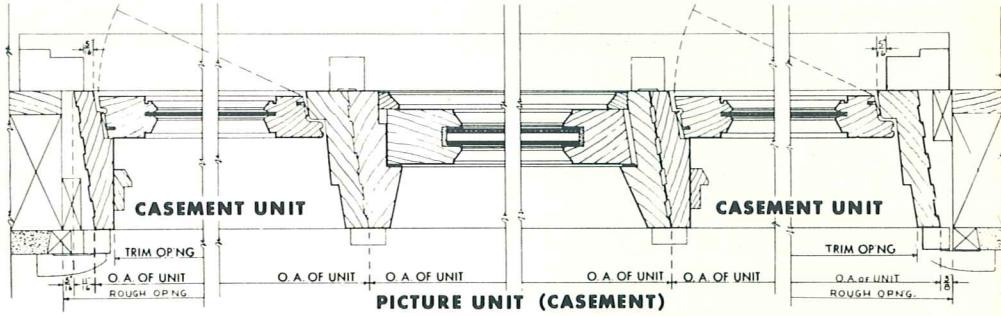


HEIGHT MEASUREMENTS INCLUDE SUB-SILL.
TO DETERMINE TRIM OPENINGS SUBTRACT 2 1/4"
FROM R. O. WIDTH, 3 1/2" FROM R. O. HEIGHT.

PLAN-CASEMENT INSTALLATION



PLAN-CASEMENT PICTURE INSTALLATION



CASEMENT-PICTURE UNITS W I D T H S

SINGLE UNIT	PICTURE UNIT	SINGLE UNIT WITH CASEMENT EACH SIDE
MASONRY O.	3636DG	M. O.
ROUGH O.	3936DG	R. O.
MASONRY O.	3644DG	M. O.
ROUGH O.	3944DG	R. O.
MASONRY O.	3644DG	M. O.
ROUGH O.	3944DG	R. O.

HEIGHS

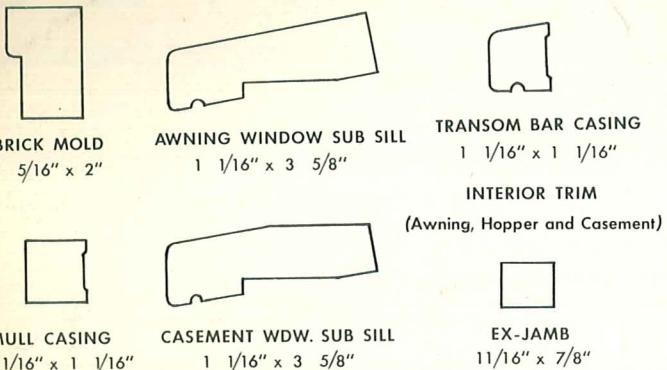
SINGLE UNIT WITH CASEMENT EACH SIDE

3636DG OR 3644DG OR 3936DG OR 3944DG 436DG OR 4444DG	MASONRY OPNG OR ROUGH MASONRY OPNG OR ROUGH MASONRY OPNG OR ROUGH MASONRY OPNG OR ROUGH	3'-7 1/2" 3'-6 1/2" 3'-10 1/2" 3'-9 1/2" 4'-3 3/4" 4'-2 1/2"
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HEIGHT MEASUREMENTS INCLUDE SUB-SILL.

TO DETERMINE TRIM OPENINGS—SUBTRACT 2 1/4"
FROM R. O. WIDTH, 3 1/2" FROM R. O. HEIGHT.

ACCESSORY WOOD PARTS FOR AWNING, HOPPER, FIXED AND CASEMENT UNITS



NOTE: All exterior trim pieces are water-repellent preservative treated in accordance with specifications of the National Woodworking Manufacturers Association. When cutting more than 3/4" from the end of exterior trim pieces, it is recommended that ends be dipped in a water-repellent solution.

BRICK MOLD—In random lengths for all unit groupings from single units to combinations of three units wide and three units high.

MULL CASING—Seven lengths of outside mull casings to extend from head brick mold to sub sill for all unit groupings from single units with 14" glass through three units high with 22" glass.

SUB SILL (Awning and Hopper)—Eleven lengths of sub sill for awning and hopper use from single 28" glass units through triple combinations of units with 44" glass.

SUB SILL (For Casements)—Six lengths of sub sills for casement use from single unit with 14" glass through twin opening with 22" glass and for triple casement combinations using side casement units and center picture unit. (The picture unit lengths are also used for combinations of casements up to four wide with 22" glass.)

TRANSOM BAR DRIP—Outside transom bar drip in four lengths to fit between side brick molds or mull casings. By extending mulls through, the fitting of trim is simplified and lengths of outside casings are greatly reduced.

Available in bundles—12 pieces to a bundle cut to approximate lengths. EX-JAMBS—11/16 x 7/8" (are used for walls up to 5 1/4" thick) available in random lengths for all unit groupings from single units up to combinations of three units wide and three units high. (Clear Ponderosa Pine)

INSIDE MULL AND TRANSOM BAR CASINGS—Not available. S4S material can be used as indicated by details. Stools and casings—not available. Use standard designs. Usually a stock stool can be used by reducing width since stool rabbet is hidden.

SPECIFICATIONS

MATERIALS: Units and exterior trim Ponderosa Pine, water-repellent preservative treated to NWMA Standards. Jamb width 4 3/8" thick.

GLAZING: Sash clamp glazed with SS or (IG) insulating glass. Removable for reglazing. Storm panels with aluminum surrounds and hardware are available for all except Picture Units glazed (IG) insulating glass.

WEATHERSTRIP: Sash completely weatherstripped with anodized special alloy aluminum.

HARDWARE: Friction slide hinges are installed on all operating units. The Releasable Bar Operator, Jointed Bar Operator, or Gear Operator are available as accessories. Each comes packed with screws and installation instructions, wood sill covers for gear and lever operators must be ordered separately to fit window openings.

PICTURE UNITS: Assembled, with frame, weatherstripped sash glazed with 1/2" DSA insulating glass or regular glass.

AWNING STORM PANELS: Specify size. For units glazed with SS and DS glass.

SCREENS: Screens shall be (a) clear kiln-dried Ponderosa Pine water-repellent preservative treated and shall include necessary hangers and locks. (b) Gold-Tone aluminum frame with hangers and locks. All screens shall be Alclad Aluminum 18/14 wire cloth with gun-metal finish.

TRIM: Bundled—not carton packed. Specify size.



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